

AMENDMENTS TO THE CLAIMS

This listing of the claims replaces all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS

1. [Currently Amended] A method for providing a power monitoring service, comprising:

providing a respective monitoring unit at each one of a plurality of power consumer sites with connections to probes on for monitoring a respective power consumption of individual power distribution circuits emanating from a power distribution and control panel of each the consumer site;

providing a circuit description table including an identification of at least one electrical load on each monitored power distribution circuit in a circuit description table;

measuring a power consumption of each of the power distribution circuits using the corresponding probes;

receiving communicating respective power consumption data indicative of the power consumption monitored at each one of the plurality of consumer sites related to the respective power distribution circuits to a power monitoring server that collects the power consumption data; and

analyzing the received power consumption data to provide useful information to interested parties compute aggregate power consumption data of a predetermined set of two or more of the plurality of power consumer sites.
2. [Currently Amended] The method as claimed in claim 1 comprising a further step of providing at least the aggregate power consumption data to wherein the interested parties comprise any one of more of the a power consumer, a power utility, a power producer, a power analyst, a power broker and a government agency.
3. [Currently Amended] The method as claimed in claim 2 further comprising providing a world wide web interface to permit the interested parties to access the

power consumption ~~information-data~~ in accordance with a subscription -agreement between the power monitoring service and the interested party.

4. [Cancelled]
5. [Currently Amended] The method as claimed in claim 1 wherein the step of analyzing ~~the received power consumption data~~ further comprises using the ~~received~~ power consumption ~~information-data~~ to compute a ~~respective~~ power consumption profile of ~~the~~each power consumer site.
6. [Currently Amended] The method as claimed in claim 1 further comprising using the ~~received~~ power consumption information and the ~~respective~~ circuit description table associated with ~~the~~each power consumption sites, to compute an aggregate power consumption profile of at least one appliance.
7. [Currently Amended] The method as claimed in claim 6 further comprising comparing ~~the received power consumption information-data of the~~a selected appliance and a power distribution circuit with the aggregate power consumption profile of ~~that~~ appliance in order to identify actual power consumption differences between the ~~selected~~ appliance and a mean of power consumption of similar monitored appliances.
8. [Currently Amended] The method as claimed in claim 6 further comprising using the ~~information-related-to~~received power consumption ~~data~~ of ~~one-~~the selected appliance over an interval of time, and the aggregate power consumption profile ~~associated-with~~of the appliance, to identify a fault in the appliance.
9. [Currently Amended] The method as claimed in claim 1 further comprising providing the ~~received power consumption data~~ ~~information-related-to~~ power consumption of the power distribution circuits over an interval of time to a power utility so that the power utility may issue a per-circuit itemized bill to the electrical power consumer.

10. [Currently Amended] The method as claimed in claim 1 further comprising using the received power consumption data information related to power consumption of the power distribution circuits of a plurality of the predetermined set of power consumer sites, to permit the a power utility company that provides electricity to the set of consumer sites, to perform prospective studies.
11. [Cancelled]
12. [Currently Amended] The system as claimed in claim 22~~44~~ wherein each of the plurality of probes is measures a current probe in its respective power distribution circuit.
13. [Cancelled]
14. [Cancelled]
15. [Currently Amended] The system as claimed in claim 22~~44~~ wherein the monitoring unit further comprises an interface for transmitting commands to a controller of at least one power consuming device, the interface and controller permitting the control of the device.
16. [Cancelled]
17. [Currently Amended] A system as claimed in claim 22~~46~~ wherein the monitoring service server performs an analysis of equipment further analyses the received power consumption data to compute a respective power consumption profile of each consumer site at the power consumer site using the power consumption profile.
18. [Currently Amended] The system as claimed in claim 17 wherein the monitoring service server equipment comprises a database for storing an aggregate power consumption profile computed using the respective power consumption profiles and circuit description tables of other the set of power consumers sites.

19. [Currently Amended] The system as claimed in claim 22~~16~~ wherein the monitoring service ~~server equipment~~ further comprises a world wide web site for selectively displaying the power consumption profiles and aggregate power consumption profiles.
20. [Currently Amended] The system as claimed in claim 22~~16~~ wherein the monitoring service ~~equipment further monitors the received power consumption information data to detect anomalies respecting in~~ the power consumption of appliances connected to the monitored power distribution circuits.
21. [Cancelled]
22. [NEW] A system for monitoring power consumption at a plurality of consumer sites, comprising:
 - a respective monitoring unit at each one of the plurality of power consumer sites, each monitoring unit being connected to a respective plurality of probes for monitoring power consumption of individual power distribution circuits of the consumer site;
 - a circuit description table including an identification of at least one electrical load on each monitored power distribution circuit; and
 - monitoring service equipment for receiving respective power consumption data indicative of the power consumption monitored at each one of the plurality of consumer sites, and for analyzing the received power consumption data to compute aggregate power consumption data of a predetermined set of two or more of the plurality of power consumer sites.